CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 64084

CHEMISTRY REVIEW(S)

Memorandum for the File (Chemistry Review #7)

DATE: May 22, 1996

FROM: Susan Rosencrance

SUBJECT: Minor Amendment submitted 5/21/96 for Pharmacia's

Sterile Bleomycin Sulfate USP

TO: AADA 64-084

The applicant has provided the requested information (batch records, COAs, stability data) for the lots tested and found acceptable by the Denver district (BLF003 & BLS002). The batch records show that both of these lots are subdivisions from 1 lot of bulk solution compounded on 1/7/94 (8.03L; BLT003). The yields for lots BLF003 and BLS002 were 779 vials and 587 vials, respectively. The manufacturing process is the same as that described in the master production record. The stability data show that the product is subject to thermal degradation; however, when stored under refrigeration as indicated in the labeling the batches remained within specification throughout a 2-year period.

Conclusion: Recommend approval for AADA 64-084 - Sterile

Bleomycin Sulfate, USP - Pharmacia.

cc: AADA 64-084
Division File
Field Copy

Endorsements:

HFD-643/SRosencrance/5/22/96 HFD-643/JHarrison/5/22/96

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F/T by:RLWest:5/22/96

APPROVAL

Memorandum for the File (Chemistry Review #6)

DATE:

April 19, 1996

FROM:

Susan Rosencrance, Chemist

THROUGH:

John Harrison, Chemistry Team Leader

SUBJECT: Minor Amendment submitted 4/10/96 for Pharmacia's

Sterile Bleomycin Sulfate USP

TO:

AADA 64-084

The CMC information in this submission was found acceptable by N. Sager in Chemistry Review #4. Issues remaining prior to approval were acceptable lab results and approval of the bulk application (AADA 64-044). The acceptable labresults were recently received from the Denver district. In addition, the bulk application (AADA 64-044) is now acceptable and currently in the approval matrix. Tables listing the specifications for the drug substance/finished product, stability requirements and components/composition were provided in Chemistry Review #4.

AADA 64-084 cc:

Division File

Field Copy

Endorsements:

HFD-643/SRosencrance/4/19/96 /
HFD-643/JHarrison/ //www- //23/4(
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F/T by APPROVAL

- 1. CHEMIST'S REVIEW NO. 4
- 2. AADA # 64-084

3. NAME AND ADDRESS OF APPLICANT

Pharmacia Inc. P.O. Box 16529 Columbus OH 43216-6529

Frederick L. Grab. Ph.D (614)764-8128 (614)764-8102 (FAX)

4. LEGAL BASIS FOR SUBMISSION

21 CFR §450.210

5. SUPPLEMENT(S)

None.

6. PROPRIETARY NAME

n/a

7. NONPROPRIETARY NAME

Sterile Bleomycin Sulfate, USP

8. SUPPLEMENT(S) PROVIDE(S) FOR

None.

9. AMENDMENTS AND OTHER DATES

Submission: 03/24/1993 Receipt: 03/29/1993 Confirmation of receipt: 07/21/1993 Request/Labeling review: n/a Labeling review #1: 07/27/1993 Labeling review #2: 05/10/1994 Labeling review #3: 09/07/1994 Labeling review #4: 02/21/1995 Labeling Review #5: 03/27/1995

Samples submitted:

ADB report:

Request/Bioeq. Waiver:

Bioeq. waiver report: 11/02/1993 (acceptable)

Request/Est. Evaluation: 08/27/1994

Est. Evaluation report: 07/05/1994 (acceptable)

Labeling amendment: 07/21/1993 N/A Chemistry: 08/16/1993

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N/A Micro: 11/05/1994
Response Chemistry: 02/02/1994
Response Micro: 02/07/1994
N/A Chemistry: 06/07/1994
Response: 08/02/1994

Micro review #2: 09/06/1994 (acceptable)

N/A letter: 09/26/1994 Response: 10/07/1994

10. PHARMACOLOGICAL CATEGORY 11

11. R or OTC

Antineoplastic

R

12. RELATED IND/NDA/DMF(s)

AADA 64-044 DMFs - See checklist

13. DOSAGE FORM

14. POTENCY

SVP

15 Units

15. CHEMICAL NAME AND STRUCTURE

N/A. A mixture of glycopeptide antibiotics isolated for a strain of *Streptomyces verticillus* and converted into sulfates.

16. RECORDS AND REPORTS

As cited throughout the review.

- 17. COMMENTS
- 18. CONCLUSIONS AND RECOMMENDATIONS

Issue minor letter with labeling deficiency.

19. REVIEWER: NANCY B. SAGER

DATE COMPLETED: 02/22/95